

Notice of Allowability

Application No.

09/929,344

Examiner

Kamini S Shah

Applicant(s)

HATA ET AL.

Art Unit

2142

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to interview with Applicant on 10/14/04.
2. ☒ The allowed claim(s) is/are 1-16.
3. ☐ The drawings filed on _____ are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6. ☒ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☒ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date 10/24/01, 9/22/04
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

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1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Thomas Robbins on 10/15/04.

The application has been amended as follows:

In the specification

Page 35, line 25 delete "bya", and insert —by a—

Page 42, line 22, change "apparatus 1" to —apparatus 5 —.

In the claims

Claim 1, line 5, delete "reference information management means for storing and managing" and insert – a reference information manager operable to store and manage-

-;

Line 7, delete " packet compression means for compressing" and insert —a packet compressor operable to compress--;

Line 9, change "and selectively adding" to —and to selectively add--;

Line 12, delete "packet transmission means for transmitting" and insert – a packet transmitter operable to transmit--;

Line 13 delete "compression means", insert —compressor--;

Line 14, delete "packet receiving means for receiving", insert —a packet receiver operable to receive--;

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Line 19, insert —a—before “mode”, delete “means for switching”, insert —unit operable to switch—;

Line 20, delete “compression means”, insert — compressor—;

Line 22, delete “compression means”, insert — compressor—;

Line 24, delete “compression means”, insert —compressor—;

Line 30, delete “means”, insert —unit—;

Claim 2, line 3, delete “means”, insert —unit—.

Claim 3, line 5, “reference information management means for storing and managing” and insert — a reference information manager operable to store and manage—;

Line 7, delete “packet receiving means for receiving” insert — a packet receiver operable to receive—;

Line 10, delete “packet decompression means”, insert —a packet decompressor—;

Line 11 delete “receiving means for updating” insert —receiver, operable to update—;

Line 13 delete “decompressing”, insert —to decompress—;

Line 15, delete “a packet transmission means for transmitting” insert —a packet transmitter operable to transmit—;

Line 19, delete “decompression means” insert —decompressor—;

Line 20 insert —a—before “mode”, delete “means for switching”, insert —unit operable to switch—;

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Line 28 insert —a— before mode, delete “means for notifying” insert —unit operable to notify—;

Line 30 delete “means”, insert —unit—;

Line 31, delete “means”, insert —unit—;

Line 33, delete “decompression means” insert —decompressor—;

Line 35, delete “means”, insert —unit—;

Line 38 delete “means”, insert —unit—.

Claim 4, line 3, delete “means”, insert —unit—.

Claim 5, line 5 insert —a— before reference, delete “management means for storing and managing” and insert —manager operable to store and manage—;

Line 7, delete “packet compression means for compressing” insert —a packet compressor operable to compress—;

Line 9, change “and selectively adding” to —and to selectively add—;

Line 12, delete “a packet transmission means for transmitting” insert —a packet transmitter operable to transmit—;

Line 13 delete “compression means”, insert —compressor—;

Line 14 delete “packet receiving means for receiving” insert — a packet receiver operable to receive—;

Line 19 insert —a— before “delay”, delete “means for measuring”, insert —unit operable to measure—;

Line 22, insert —a— before “mode” delete “means for switching”, insert —unit operable to switch—;

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Line 24, delete "compression means", insert --compressor--;

Line 25, delete "compression means", insert --compressor--;

Line 27, delete "compression means", insert --compressor--;

Line 31, delete "means", insert --unit--;

Line 32, delete "means", insert --unit--;

Line 6, delete "means", insert --unit--;

Line 7, insert --a-- delete "management means for storing and managing" and insert --manager operable to store and manage--;

Line 6, delete "packet receiving means for receiving" insert -- a packet receiver operable to receive--;

Line 10, delete "packet decompression means", insert --a packet decompressor--;

Line 11, delete "packet receiving means for updating" insert -- a packet receiver operable to update--;

Line 13, delete "decompression means" insert --decompresser--;

Line 15, delete "packet transmission means for transmitting" and insert -- a packet transmitter operable to transmit--;

Line 19, delete "decompression means" insert --decompresser--;

Line 20 insert --a-- before "delay", delete "means for measuring", insert --unit operable to measure--;

Line 23, insert --a--before "mode", delete "means for switching", insert --unit operable to switch--;

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Line 31, insert —a—before mode, delete “means for notifying” insert —unit operable to notify--;

Line 33, delete “means”, insert —unit--;

Line 34 delete “means”, insert —unit--;

Line 35 delete “means”, insert —unit--;

Claim 8, line 3, delete “means”, insert —unit--;

Claim 9, line 5 delete “a packet compression step of” insert —compressing a packet by—;

Line 10, delete “a packet transmission step of”;

Line 11 delete “a packet compression step” insert —compressing a packet—;

Line 12 delete, “a packet receiving step of”;

Line 17, delete “a mode determination step of”;

Line 18, delete “a packet compression step” insert —compressing a packet —;

Line 24, delete “mode determination step” insert —switching--.

Claim 10, line 4, delete “a mode determination step” insert —switching--;

Claim 11, line 5, delete “a packet receiving step of”;

Lines 8-9, delete “a packet decompression step, provided with the packet received in said packet receiving step for”, insert—decompressing a packet received during said receiving, by--;

Line 13, delete “a packet transmission step of”;

Line 17, delete “ packet decompression step”, insert —decompressing a packet--;

Line 18, delete “a mode determination step of”;

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Line 26, delete "mode notification step of";

Line 27-28, delete "a mode determination step of" insert –switching--;

Line 29, delete "a mode determination step of" insert –switching--;

Line 30-31, delete "packet decompression step" insert –decompressing a packet-

Claim 12, line 3, delete "a mode determination step of" insert –switching--.

Claim 13, delete "a packet compression step" insert –compressing a packet by—;

Line 10, delete "a packet transmission step of";

Line 11, delete "packet compression step" insert –compressing a packet --;

Line 13, delete "a packet receiving step of";

Line 17, delete "delay time measuring step of";

Line 20 delete "a mode determination step of";

Line 21, delete "packet compression step" insert –compressing a packet —;

Line 27, delete "mode determination step" insert –switching--;

Line 28, delete "delay time", and after measuring delete "step".

Claim 14, line 3, delete "mode determination step" insert –switching--;

Claim 15, line 5, delete "a packet receiving step of";

Lines 8-9 delete "a packet decompression step, provided with the packet received in said packet receiving step for", insert—decompressing a packet received during said receiving, by--;

Line 13, delete "a packet transmission step of";

Line 17, delete "a packet decompression step" insert –decompressing a packet--;

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Line 18, delete "delay time measuring step of";

Line 21, delete "a mode determination step of";

Line 29, delete "a mode determination step of";

Line 30-31, delete "mode determination step" insert –switching--;

Line 32, delete "mode determination step" insert –switching--;

Line 33, delete "delay time", after measuring delete "step".

Claim 16, delete "mode determination step" insert –switching--;

2. The following changes to the drawings have been approved by the examiner and agreed upon by applicant: Figures 6A, 6B and 7-11 are label as –Prior Art--. In order to avoid abandonment of the application, applicant must make these above agreed upon drawing changes.

3. The following is an examiner's statement of reasons for allowance: the cited prior art does not teach or suggest to count the number of NACKs or ACKs per unit of time and switch mode according to corresponding thresholds such as predetermined value, hence solving the problem of adapting the operable mode according to the link losses in order to enable reliable operation as in claims 1-4 and 9-12. Additionally, the cited prior art does not teach to measure round trip delay, and adapt operation mode according to corresponding thresholds such as predetermined value, hence solving the problem of adapting the operation mode according to the round trip delay time in order to guarantee timely context updates, as in claims 5-8, and 13-16. The prior art does not teach mode determination which counts the NACKs or ACKs per unit of time by an

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ACK/NACK packet receiver and when the counted number NACK packets larger than a predetermined value the mode determination unit switches the operation mode of the packet compressor to the reliable mode. When counted number ACK packets larger than a predetermined value mode determination unit switches the operation mode of the packet compressor to the optimistic mode.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kamini S Shah whose telephone number is 571-272-2279. The examiner can normally be reached on IFP.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jack B Harvey can be reached on 571-272-3896. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Kamini S Shah
Primary Examiner
Art Unit 2142

kss